

INFORMATION DISCLOSURE STATEMENT

David Haffner et al.

App. No.

10/634,213

Filed

August 5, 2003

For

DEVICES AND METHODS FOR

GLAUCOMA TREATMENT

Examiner

Unknown

Group Art Unit

Unknown

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 202 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of all other references, if listed, are enclosed.

This Information Disclosure Statement is being filed within three months of the filing date of this application and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1), (b)(2), or (b)(4).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: / b/ \ 3/ \ \ 3

James WATill.

Registration No. 46,396

Attorney of Record Customer No. 20,995

(949) 760-0404

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT **BY APPLICANT** SE SEVERAL SHEETS IF NECESSARY)

ATTY. DOCKET NO. GLAUKO.011CP1	APPLICATION NO. 10/634,213
APPLICANT David Haffner et al.	
FILING DATE August 5, 2003	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	RE. 35,390	12/03/96	Smith			
	2	3,788,327	01/29/74	Donowitz et al.			
	3	4,037,604	07/26/77	Newkirk		:	
	4	4,168,697	09/25/79	Cantekin			
	5	4,175,563	11/27/79	Arenberg et al.			
	6	4,402,681	09/06/83	Haas et al.			
	7	4,428,746	01/31/84	Mendez			
	8	4,501,274	02/26/85	Skjaerpe			
	9	4,521,210	06/04/85	Wong			
	10	4,554,918	11/26/85	White			
	11	4,604,087	08/05/86	Joseph			
	12	4,632,842	12/30/86	Karwoski et al.			
	13	4,634,418	01/06/87	Binder			
	14	4,718,907	01/12/88	Karwoski et al.		····	
	15	4,722,724	02/02/88	Schocket			***************************************
	16	4,733,665	03/29/88	Palmaz			
	17	4,750,901	06/14/88	Molteno			-
	18	4,787,885	11/29/88	Binder			
	19	4,804,382	02/14/89	Turina et al.			
	20	4,820,626	04/11/89	Williams et al.			
	21	4,846,172	07/11/89	Berlin			
	22	4,853,224	08/01/89	Wong			
	23	4,863,457	09/05/89	Lee		-	
	24	4,883,864		Scholz			· · · · · · · · · · · · · · · · · · ·
	25	4,886,488	12/12/89	White			
	26	4,900,300		Lee			
	27	4,936,825	06/26/90	Ungerleider			

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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	28	4,946,436	08/07/90	Smith					
•	29	4,968,296	11/06/90	Ritch et al.					
	30	4,997,652	03/05/91	Wong					
	31	5,041,081	08/20/91	Odrich					
	32	5,073,163	12/17/91	Lippman					
	33	5,092,837	03/03/92	Ritch et al.					
	34	5,095,887	03/17/92	Leon et al.					
	35	5,127,901	07/07/92	Odrich					
	36	5,129,895	07/14/92	Vassiliadis et al.					
	37	5,164,188	11/17/92	Wong					
	38	5,171,213	12/15/92	Price, Jr.					
	39	5,178,604	01/12/93	Baerveldt et al.			· · · · · ·		
•	40	5,180,362	01/19/93	Worst					
	41	5,246,451	09/21/93	Trescony et al.					
	42	5,290,295	03/01/94	Querals et al.					
	43	5,300,020	04/05/94	L'Esperance, Jr.					
	44	5,318,513	06/07/94	Leib et al.			- .		
	45	5,334,137	08/02/94	Freeman					
	46	5,338,291	08/16/94	Speckman et al.					
	47	5,346,464	09/13/94	Camras					
	48	5,360,399	11/01/94	Stegmann					
	49	5,370,607	12/06/94	Memmen					
	50	5,370,641	12/06/94	O'Donnell, Jr.					
	51	5,372,577	12/13/94	Ungerleider			· · · · · · · · · · · · · · · · · · ·		
	52	5,397,300	03/14/95	Baerveldt et al.					
	53	5,433,701	07/18/95	Rubinstein					
	54	5,443,505	08/22/95	Wong et al.					

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*EXAMMER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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August 5, 2003

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U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE CLASS SUBCLASS NAME FILING DATE INITIAL (IF APPROPRIATE) 55 5,454,796 10/03/95 Krupin 56 5,476,445 12/19/95 Baerveldt et al. 57 5,472,440 12/05/95 Beckman 58 01/23/96 5,486,165 Stegmann 59 5,516,522 05/14/96 Peyman et al. 60 5,520,631 05/28/96 | Nordquist et al. 61 5,557,453 09/17/96 Schalz et al. 62 5,558,629 09/24/96 Baerveldt et al. 63 Fisher 5,558,630 09/24/96 64 5,562,641 10/08/96 Flomenblit et al. 65 5,601,094 02/11/97 Reiss 66 5,601,549 02/11/97 Miyagi 67 5,626,558 05/06/97 Suson 68 5,626,559 05/06/97 Solomon 69 5,639,278 06/17/97 Dereume et al. 70 5,651,783 07/29/97 Reynard 71 5,665,114 09/09/97 Weadock et al. 72 5,670,161 09/23/97 | Healy et al. 73 5,676,679 10/14/97 Simon et al. 74 5,681,275 10/28/97 Ahmed 75 5,702,414 12/30/97 | Richter et al. 76 5,702,419 12/30/97 | Berry et al. 77 5,704,907 01/06/98 Nordquist et al. 78 5,713,844 02/03/98 Peyman 79 5,723 005 03/03/98 Herrick 80 5,741,333 04/21/98 Frid 81 5,743,868 04/28/98 Brown et al.

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U.S. PATENT DOCUMENTS								
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	82	5,752,928	05/19/98	de Roulhac et al.			<u> </u>	
	83	5,766,242	06/16/98	Wong et al.				
	84	5,766,243	06/16/98	Christensen et al.				
	85	5,785,674	07/28/98	Mateen			- "	
	86	5,807,202	09/15/98	Wandel				
	87	5,810,870	09/22/98	Myers et al.				
	88	5,824,072	10/20/98	Wong				
	89	5,830,139	11/03/98	Abreu				
	90	5,830,171	11/03/98	Wallace			·· · · · · · · · · · · · · · · · · · ·	
	91	5,836,939	11/17/98	Negus et al.				
	92	5,865,831	02/02/99	Cozean et al.				
	93	5,868,697	02/09/99	Richter et al.			•	
	94	5,879,319	03/09/99	Pynson et al.				
	95	5,882,327	03/16/99	Jacob				
	96	5,886,822	03/23/99	Spitzer				
•	97	5,893,837	04/13/99	Eagles et al.				
	98	5,908,449	06/01/99	Bruchman et al.				
,,,,,,	99	5,932,299	08/03/99	Katoot				
	100	5,968,058	10/19/99	Richter et al.				
	101	5,981,598	11/09/99	Tatton				
	102	6,004,302	12/21/99	Brierley				
	103	6,007,510	12/28/99	Nigam				
	104	6,007,511	12/28/99	Prywes				
	105	6,033,434	03/07/00	Borghi				
	106	6,045,557	04/04/00	White et al.				
	107	6,050,970	04/18/00	Baerveldt				
	108	6,059,772	05/09/00	Hsia et al.				

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ATTY. DOCKET	NO.
GLAUKO.011C	P1

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		•		U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	109	6,059,812	05/09/00	Clerc et al.			
	110	6,071,286	06/06/00	Mawad			
	111	6,174,305	01/16/01	Mikus et al.			
	112	6,228,873	05/08/01	Brandt et al.			
	113	6,231,597	05/15/01	Deem et al.			
	114	6,241,721	06/05/01	Cozean et al.			
	115	6,266,182	07/24/01	Morita			
-	116	6,268,398	07/31/01	Ghosh et al.			
	117	6,342,058	01/29/02	Portney			
	118	6,375,642	04/23/02	Grieshaber et al.			
	119	6,450,984	09/17/02	Lynch et al.			
	120	6,464,724	10/15/02	Lynch et al.			
	121	6,533,768	03/18/03	Hill			
	122	6,544,249	04/08/03	Yu et al.			
	123	6,063,116	05/16/00	Kelleher			
	124	6,063,396	05/16/00	Kelleher			
	125	6,077,299	06/20/00	Adelberg et al.			
	126	6,102,045	08/15/00	Nordquist et al.			
	127	6,142,990	11/07/00	Burk			
	128	6,165,210	12/26/00	Lau et al.			
	129	6,168,575	01/02/01	Soltanpour			
·	130	6,193,656	02/27/01	Jeffries et al.			
	131	6,197,056	03/06/01	Schachar			
	132	6,203,513	03/20/01	Yaron et al.			
	133	6,217,895	04/17/01	Guo et al.			
	134	6,251,090	06/26/01	Avery et al.			
	135	6,287,313	09/11/01	Sasso			

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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U.S. PATENT DOCUMENTS								
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	136	6,299,895	10/09/01	Hammang et al.				
-	137	6,331,313	12/18/01	Wong et al.				
	138	6,413,540	07/02/02	Yaacobi				
	139	6,416,777	07/09/02	Yaacobi				
	140	6,436,427	08/20/02	Hammang et al.				
-	141	6,533,768	03/18/03	Hill				
'''	142	6,544,249	04/08/03	Yu et al.				
	143	6,548,078	04/15/03	Guo et al.				
	144	2002/0013546	01/31/02	Grieshaber et al.				
	145	2002/0026200	02/28/02	Savage			· · · · · · · · · · · · · · · · · · ·	
	146 .	2002/0072673	06/13/02	Yamamoto et al.				
	147	2002/0099434	07/25/02	Buscemi et al.				
	148	2003/0069637	04/10/03	Lynch et al.				

August 5, 2003

FOREIGN PATENT DOCUMENTS									
EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION	
INITIAL							YES	МО	
	149	WO 89/00869	02/09/89	PCT					
	150	WO 91/18568	12/12/91	PCT					
	151	WO 92/19294	11/12/92	PCT					
-	152	WO 94/13234	06/23/94	PCT					
	153	WO 94/21205	09/29/94	PCT					
	154	WO 95/08310	03/30/95	PCT					
	155	WO 98/30181	07/16/98	PCT	-				
	156	WO 98/35639	08/20/98	PCT					
	157	WO 99/26567	06/03/99	PCT				<u> </u>	
	158	WO 99/30641	06/24/99	PCT			·		

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APPLICANT David Haffner et al.

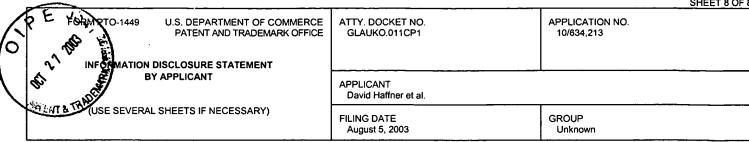
FILING DATE August 5, 2003 GROUP Unknown

	FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL							YES	NO
	159	WO 99/38470	08/05/99	РСТ				
	160	WO 00/13627	03/16/00	РСТ				
	161	WO 00/64389	11/02/00	PCT				
	162	WO 00/64390	11/02/00	РСТ				
	163	WO 00/64391	11/02/00	PCT				
	164	WO 00/64393	11/02/00	РСТ				
	165	WO 00/72788	12/07/00	PCT				
	166	WO 01/50943	07/19/01	PCT				
	167	WO 01/78631	10/25/01	PCT				
	168	WO 01/78656	10/25/01	РСТ				
	169	WO 03/015659	02/27/03	PCT				
	170	AU 200072059	12/06/00	Australia				
	171	CA 2,244,646	08/11/98	Canada				
	172	DE 198 40 047	09/02/98	German				
	173	EP 0 858 788	03/31/98	Europe				
	174	EP 1 114 627	11/30/00	Europe				
	175	EP 0 898 947	07/14/98	Europe				
	176	GB 2 296 663	10/07/96	UK				
	177	2 710 269	09/22/93	France				
	178	11-123205	05/11/99	Japan				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)			
	179	Jacobi et al., Goniocurettage for Removing Trabecular Meshwork: Clinical Results of a New Surgical Technique in Advanced Chronic Open-Angle Glaucoma, American Journal of Ophtoalmology, May 1999, Vol. 127, No. 5, Pages 505-510.		
	180	Jacobi et al., Bimanual Trabecular Aspiration in Pseudoexfoliation Glaucoma: An Alternative in Nonfiltering Glaucoma Surgery, American Journal of Ophthalmology, May 1998, Vol. 105, No. 5, Pages 886-894.		
	181	Jacobi et al., <i>Microendoscopic Travecular Surgery in Glaucoma Management</i> , American Journal of Ophtoalmology, March 1999, Vol. 106, No. 3, Pages 538-544.		

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EXAMINER INITIAL				
	182	Schwartz et al., Trabecular Surgery, Arch. Ophthalmol, August 1974, Vol. 92, Pages 134-138.		
	183	Hill et al., Free-Electron Laser (FEL) Ablation of Ocular Tissues, Lasers Med Sci, 1998, Vol. 13, Pages 219-226.		
	184	Luntz et al., <i>Traveculotomy AB Externo and Trabeculectomy in Congenital and Adult-Onset Glaucoma</i> , American Journal of Ophthalmology, February 1977, Vol. 83, No.2, Pages 174-179.		
	185	W. M. Grant, Further Studies on Facility of Flow Through the Trabecular Meshwork, AMA Archives of Ophthalmology, October 1958, Vol. 60, Pages 523-533.		
	186	Hill et al., Laser Trabecular Ablation (LTA), Lasers in Surgery and Medicine, 1991, Vol. 11, Pages 341-346.		
	187	Spiegel et al., Schlemm's Canal Implant: A New Method to Lower Intraocular Pressure in Patients With POAG?, Ophthalmic Surgery and Lasers, June 1999, Vol. 30, No. 6, Pages 492-494.		
	188	L.J. Katz, A Call for Innovative Operations for Glaucoma, Arch. Ophthalmol, March 2000, Vol. 118, Pages 412-413.		
	189	Detlev Spiegel, Benefits and Risks of Ophthalmological Therapy: 7 Surgical Glaucoma Therapy, Main Presentataions at the XXXIII Continuing Education for Ophthalmologists in Essen (Germany), published December 1998.		
	190	Hoerauf et al., Slit-lamp-adapted optical coherence tomography of the anterior segment, Graefe's Arch Clin Exp Ophthalmol (2000), Vol. 237, Pages 8-18.		
	191	Radhakrishnan et al., Real-Time Optical Coherence Tomography of the Anterior Segment at 1310 nm, Arch Ophthalmol, August 2002, Vol. 119, Pages 1179-1185.		
	192	Grierson et al., Age-related Changes in the Canal of Schlemm, Eye Res. (1984) Vol. 39, Pages 505-512.		
	193	Putney et al., Intracellular C1 regulates Na-K-C1 cotransport activity in human trabecular meshwork cells, American Journal of Physiology, September 1999, Vol. 277, Pages C373-383.		
	194	K. Strange, Cellular and Molecular Physiology of Cell Volume Regulation, CTC Press, Inc: 1994, Pages 311-321.		
	195	Tatton et al., Maintaining Mitochondrial Membrane Impermeability: An opportunity for New Therapy in Glaucoma?, Survey of Ophthalmology May 2001, Vol. 45, Supplement 3, Pages S277-283.		
	196	R.W. Nickells, Apoptosis of Retinal Ganglion Cells in Glaucoma: An Update of the Molecular Pathways Involved in Cell Death, Survey of Ophthalmology June 1999, Vol. 43, Supplement 1, Pages S151-161.		
	197	J.W. Rohen, Anatomy of the aqueous outflow channels, Glaucoma: Volume 1, Grune & Stratton: 1986. Pages 277-296.		
	198	Matsumoto et al., <i>Trabecular Meshwork Phagocytosis in Glaucomatous Eyes</i> , Ophthalmologica 1997, Vol. 211, Pages 147-152.		
	199	M. B. Shields. A Study Guide for Glaucoma, Williams & Wilkins: 1982, Pages 6-43.		
	200	Johnstone et al., Cylindrical Tubular Structures Spanning from Trabecular Meshwork Across SC: Laboratory Studies With SEM, TEM & Tracers Correlated with Clinical Findings, Abstract Paper No. 18. Page 39 from American Glaucoma Society 12 th Annual Meeting.		
	201	W.G. Tatton, Apoptotic mechanisms in neurodegeneration: Possible relevance to glaucoma, European Journal of Ophthalmology 1999, Vol. 9, Supplement 1, Pages S22-29.		
	202	U.S. Patent Application Serial No. 09/452,963, filed December 2, 1999. Title: Expandable/Retractable Stent For Venous and Valvular Annulus Use.		

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

October 24, 2003 (Date)

ames W. Hill, M.D., Reg. No. 46,396

TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with two hundred and two (202) references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

James W. Hill, M.D. Registration No. 46,396 Attorney of Record Customer No. 20,995 (949) 760-0404